

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/594762	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:40
S2	10095	8-hydroxyquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:42
S3	2682	8-hydroxyquinoline and (CVD or ALD or ALE or vapor deposition or "427"/\$.ccls.)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:42
S4	0	S3 and (TMA same 8-hydroxyquinoline)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:43
S5	1740	S3 and (\$8aluminum same 8-hydroxyquinoline)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:44
S6	1507	S3 and (\$8aluminum with 8-hydroxyquinoline)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:44
S7	269	S6 and "427"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:45
S8	1507	S3 and (\$8aluminum with " 8-hydroxyquinoline")	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:48
S9	186	S3 and (zinc with " 8-hydroxyquinoline")	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:48
S10	0	S3 and (zinc with 8-hydroxyquinoline) same (ALD or ALE)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:49
S11	0	S3 and (aluminum with 8-hydroxyquinoline) same (ALD or ALE)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:49

S12	0	S3 and 8-hydroxyquinoline with (trimethylaluminum-dimethylethylamine or TMAI-DMEA or trimethylaluminum-trimethylamine or TMAI-TMA or trimethylaluminum-triethylamine or TMAI-TEA or trimethylaluminum-methylpyrrolidine or TMAI-MP or trimethylaluminum-ethylpyrrolidine or TMAI-EP or trimethylaluminum-ethylpiperidine or TMAI-EPP or trimethylaluminum-ethylmorpholine or TMAI-EMP or triethylaluminum or TEAI or triethylaluminum-dimethylethylamine or TEAI-DMEA or triethylaluminum-trimethylamine or TEAI-TMA or triethylaluminum-triethylamine or TEAI-TEA or triethylaluminum-methylpyrrolidine or TEAI-MP or triethylaluminum-ethylpyrrolidine or TEAI-EP or triethylaluminum-ethylpiperidine or TEAI-EPP or triethylaluminum-ethylmorpholine or TEAI-EMP)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:51
S13	6	S3 and 8-hydroxyquinoline same (trimethylaluminum-dimethylethylamine or TMAI-DMEA or trimethylaluminum-trimethylamine or TMAI-TMA or trimethylaluminum-triethylamine or TMAI-TEA or trimethylaluminum-methylpyrrolidine or TMAI-MP or trimethylaluminum-ethylpyrrolidine or TMAI-EP or trimethylaluminum-ethylpiperidine or TMAI-EPP or trimethylaluminum-ethylmorpholine or TMAI-EMP or triethylaluminum or TEAI or triethylaluminum-dimethylethylamine or TEAI-DMEA or triethylaluminum-trimethylamine or TEAI-TMA or triethylaluminum-triethylamine or TEAI-TEA or triethylaluminum-methylpyrrolidine or TEAI-MP or triethylaluminum-ethylpyrrolidine or TEAI-EP or	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:51

		triethylaluminum-ethylpiperidine or TEAL-EPP or triethylaluminum-ethylmorpholine or TEAL-EMP)				
S14	277	"Alq.sub.3" and kim.in.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/23 20:55
S15	2682	8-hydroxyquinoline and (CVD or ALD or ALE or vapor deposition or "427"/\$.ccls.)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 10:35
S16	31	S15 and 8-hydroxyquinoline with acetylacetonate	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 10:35
S17	0	(8-hydroxy-5-quinolyl) methane	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:24
S18	0	(8-hydroxy-5-quinolyl) methane	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:27
S19	0	bis(hydroxy-5-quinolyl) methane	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:27
S20	0	bis(8-hydroxy-5-quinolyl) methane	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:28
S21	151	8-hydroxyquinoline and (ALD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:33
S22	573	"Alq.sub.3" same (CVD or ALD or ALE or vapor deposition or "427"/\$.ccls.)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:35
S23	304	"Alq.sub.3" with (CVD or ALD or ALE or vapor deposition)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:37
S25	1	"Alq.sub.3" with (ALD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:37
S26	2226	tris(8-quinolinolato)aluminum (III) or (Al or aluminum) near3 ALQ	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:40
S27	49	S26 and (ALD or atomic layer or ALE)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:40
S28	9	(zno or diethylzinc or DEZ or DEZn) same (ALD or atomic layer or ALE) and hydroxyquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:56
S29	8	MLD and hydroxyquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/02/24 11:58

S30	2	"20070218190"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:16
S31	2	"20090209049"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:23
S32	2692	8-hydroxyquinoline and (CVD or ALD or ALE or vapor deposition or "427"/\$.ccls.)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:32
S33	1514	S32 and (\$aluminum with "8-hydroxyquinoline")	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:32
S34	254	S33 and ((ga with Al) or mixed (film or layer))	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:32
S35	1	S33 and ((ga with Al) or mixed (film or layer)) same (ALD or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:33
S36	2	S32 and ((ga with Al) or mixed (film or layer)) same (ALD or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:35
S37	3	S32 and mixed (film or layer) and (ALD or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:36
S38	0	GaAl same (ALD or atomic layer or ALE)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:37
S39	2260	((ga or gallium) or (zn or zinc)) same (al or aluminum) same (ALD or atomic layer or ALE)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:38
S40	17	S39 and 8-hydroxyquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:38
S41	47	MLD and quinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:39
S42	0	MLD and quinolinol	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:39
S43	1824	S32 and ((ga or gallium) or (zn or zinc)) same (al or aluminum)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:42
S44	1824	S43 and 8-hydroxyquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:42
S45	0	S43 and 8-hydroxyquinoline same ALD	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:42

S46	4	S43 and ((ga or gallium) or (zn or zinc)) same (al or aluminum) same ALD	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:42
S47	3	"20050131175"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:51
S48	2	"20040001915"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 16:59
S49	2	"6337102".pn.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/02 17:23
S50	5	(8-hydroxyquinoline or quinolinol) with (purg\$4 or puls\$4)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:31
S51	2	"20070231467"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:32
S52	0	(8-hydroxyquinoline or quinolinol) same MLD	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:35
S53	7	(8-hydroxyquinoline or quinolinol) and MLD	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:36
S54	2	"20050084713"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:50
S55	75	quinoline with (purg\$4 or puls\$4 or ALD or MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:52
S56	2	S55 and "427"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 09:53
S57	305	"Alq.sub.3" with (CVD or ALD or ALE or vapor deposition or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:30
S58	28190	quinolyl	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:30
S59	0	quinolyl same (CVD or MLD or ALD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:31
S60	567	quinolyl and (CVD or MLD or ALD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:31
S61	566	quinolyl and (CVD or MLD or ALD) and (aluminum or gallium or ga or al)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:31
S62	90	quinolyl and (MLD or ALD) and (aluminum or gallium or ga or al)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:31

S63	12	S61 and "427"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:32
S64	7	ALD same PPV	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:39
S66	72	bisquinoline	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:48
S67	0	bisquinoline and (ALD or MLD or CVD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:49
S68	3	"20050164589"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:51
S69	1	"Alq.sub.3" with (ALD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:56
S70	2	"Alq.sub.3" same (ALD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 17:57
S71	1	"Alq.sub.3" same (MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 18:15
S72	0	8-hydroxyquinoline with (ALD or ALE or MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 18:16
S73	0	hydroxyquinoline with (ALD or ALE or MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 18:16
S74	9	hydroxyquinoline same (ALD or ALE or MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 18:16
S75	2	"20080102313"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:35
S76	2	"5693139".pn.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:38
S77	77020	hydroquinone	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:46
S78	235	hydroquinone and (ALD or ALCVD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:46
S79	12	hydroquinone same (ALD or ALCVD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:46
S80	12	S78 and "427"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:48

S81	2	"20020048635"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 20:52
S82	63	("2002/0048635").URPN.	USPAT	ADJ	ON	2010/03/03 20:54
S83	8	S82 and (quinoxaline or hydroquinone)	USPAT	ADJ	ON	2010/03/03 20:58
S85	11	quinone same (ALD or ALCVD or ALE or atomic layer)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/03 21:09
S87	4	("20020155230"   "5554220"   "6358631"   "6517996").PN.	US-PGPUB; USPAT	ADJ	ON	2010/03/04 15:12
S97	1	"Alq.sub.3" same (MLD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 13:17
S98	311	MLD and (light emitting or EL)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 13:18
S99	16	MLD and (light emitting or EL) and purg\$4	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 13:18
S100	4	("20020155230"   "5554220"   "6358631"   "6517996").PN.	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:20
S101	1	S100 and purg\$4	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:20
S102	111	MLD and purg\$4	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:21
S103	48	S102 and organ\$6	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:21
S104	1039	(molecular layer or CLD) and purg\$4	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:22
S105	241	(molecular layer deposition or CLD) and purg\$4	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:22
S106	241	(molecular layer deposition or CLD) and purg\$4	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:23
S107	17	metal with chelate\$4 same (ALD or MLD or CLD)	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:26
S108	5	metal with chelate\$4 same (sequential with vapor)	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:27
S109	179	(molecular layer deposition or CLD) and purg\$4 and metal	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:31
S110	8	(molecular layer deposition or CLD) same purg\$4 same metal	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:31
S111	16	(molecular layer deposition or CLD) same purg\$4 and metal	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:32

S112	179	(molecular layer deposition or CLD) and purg\$4 and metal	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:33
S113	163	S112 not S111	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:33
S114	14	S113 and "427"/\$.cds.	US-PGPUB; USPAT	ADJ	ON	2010/03/10 13:33
S115	13	pump adj5 in adj4 chamber	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:04
S116	23	pump adj8 in adj4 chamber	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:05
S117	12617	pump with (located or disposed or placed) adj4 (chamber or reactor)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:11
S118	362	S117 and "427"/\$.cds.	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:11
S119	104	S118 and pump adj8 (located or disposed or placed) adj4 (chamber or reactor)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:11
S120	219	S117 and pump adj8 (located or disposed or placed) adj4 (inside or inner or in the) adj3 (chamber or reactor)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:14
S121	6	S118 and pump adj8 (located or disposed or placed) adj4 (inside or inner or in the) adj3 (chamber or reactor)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:15
S122	15	S120 and (CVD or deposition or ALD)	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2010/03/10 17:16
S123	179	(molecular layer deposition or CLD) and purg\$4 and metal	US-PGPUB; USPAT	ADJ	ON	2010/03/10 17:45
S124	1	("2002/0005167").URPN.	USPAT	ADJ	ON	2010/03/10 18:19
S125	1	"4455364".pn.	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:19
S126	1511	aluminum acetylacetonate or (al adj2 ("c.sub.5h.sub.7o.sub.2"))	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:24



S127	36	(aluminum acetylacetonate or (al adj2 ("c.sub.5h.sub.7o.sub.2"))) with (trimethylaluminum-dimethylethylamine or TMAI-DMEA or trimethylaluminum-trimethylamine or TMAI-TMA or trimethylaluminum-triethylamine or TMAI-TEA or trimethylaluminum-methylpyrrolidine or TMAI-MP or trimethylaluminum-ethylpyrrolidine or TMAI-EP or trimethylaluminum-ethylpiperidine or TMAI-EPP or trimethylaluminum-ethylmorpholine or TMAI-EMP or triethylaluminum or TEAI or triethylaluminum-dimethylethylamine or TEAI-DMEA or triethylaluminum-trimethylamine or TEAI-TMA or triethylaluminum-triethylamine or TEAI-TEA or triethylaluminum-methylpyrrolidine or TEAI-MP or triethylaluminum-ethylpyrrolidine or TEAI-EP or triethylaluminum-ethylpiperidine or TEAI-EPP or triethylaluminum-ethylmorpholine or TEAI-EMP)	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:25
S128	17	(aluminum acetylacetonate or (al adj2 ("c.sub.5h.sub.7o.sub.2"))) with (trimethylaluminum-dimethylethylamine or TMAI-DMEA or trimethylaluminum-trimethylamine or TMAI-TMA or trimethylaluminum-triethylamine or TMAI-TEA or trimethylaluminum-methylpyrrolidine or TMAI-MP or trimethylaluminum-ethylpyrrolidine or TMAI-EP or trimethylaluminum-ethylpiperidine or TMAI-EPP or trimethylaluminum-ethylmorpholine or TMAI-EMP or triethylaluminum or TEAI or triethylaluminum-dimethylethylamine or TEAI-DMEA or triethylaluminum-trimethylamine or TEAI-TMA or triethylaluminum-triethylamine or TEAI-TEA or	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:27

		triethylaluminum-methylpyrrolidine or TEAI-MP or triethylaluminum-ethylpyrrolidine or TEAI-EP or triethylaluminum-ethylpiperidine or TEAI-EPP or triethylaluminum-ethylmorpholine or TEAI-EMP) and (evaporat\$5)				
S129	1	"2107856".pn.	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:48
S130	0	bis(8-hydroxy-2-methyl-5-quinolyl)methane	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:51
S131	0	(8-hydroxy-2-methyl-5-quinolyl)	US-PGPUB; USPAT	ADJ	ON	2010/03/10 19:51

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S88	37	427/248.1.ccls. and 8-hydroxyquinoline	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:17
S89	24	427/248.1.ccls. and oxine	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:20
S90	0	427/248.1.ccls. and oxine and ALD	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:20
S91	1	427/248.1.ccls. and 8-quinolinol	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:20
S92	25	427/248.1.ccls. and 8-quinolinol	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:20
S93	0	427/248.1.ccls. and 8-quinolinol and ALD	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:20
S94	46	427/248.1.ccls. and hydroxyquin\$6	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:23
S95	2	S94 and (ALD or ale or atomic layer or MLD or QLD or ALCVD)	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:23
S96	46	427/248.1.ccls. and \$8hydroxyquin\$6	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/03/04 15:24

3/ 11/ 2010 2:25:30 PM

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